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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/912,938	07/25/2001	Yoshinori Ito	04452/015001	5593
22511 75	590 02/05/2003			
ROSENTHAL & OSHA L.L.P.			EXAMINER	
1221 MCKINNEY AVENUE SUITE 2800 HOUSTON, TX 77010			CUEVAS, PEDRO J	
			ART UNIT	PAPER NUMBER
			2834	
			DATE MAILED: 02/05/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

			M
,	Application No.	Applicant(s)	<i>P</i> -1
	09/912,938	ITO, YOSHINORI	į
Office Action Summary	Examiner	Art Unit	
	Pedro J. Cuevas	2834	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet	vith the correspondence address	-
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by ste - Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b). Status	N. R 1.136(a). In no event, however, may reply within the statutory minimum of the dwill apply and will expire SIX (6) Me tatute. cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communica ABANDONED (35 U.S.C. § 133).	ition.
1) Responsive to communication(s) filed on 1	<u>13 December 2002</u> .		
,	This action is non-final.		
3) Since this application is in condition for allo closed in accordance with the practice und	owance except for formal m der <i>Ex parte Quayl</i> e, 1935 (atters, prosecution as to the merit C.D. 11, 453 O.G. 213.	ts is
Disposition of Claims	•		
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the appl			
4a) Of the above claim(s) is/are with	drawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction an	nd/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam			
10) The drawing(s) filed on is/are: a) a			
Applicant may not request that any objection t			
11) The proposed drawing correction filed on		I disapproved by the Examiner.	
If approved, corrected drawings are required in 12). The oath or declaration is objected to by the			
,	e Laminer.		
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for for	reign priority under 35 H S (3. 8. 119(a)-(d) or (f)	
	reign priority under 33 0.3.	7. 9 119(a)-(u) or (i).	
a) ☐ All b) ☐ Some * c) ☐ None of:	anta haya baan ragaiyad		
1. Certified copies of the priority docum		Application No	
2. Certified copies of the priority docum			
3. Copies of the certified copies of the application from the Internationa* See the attached detailed Office action for a	al Bureau (PCT Rule 17.2(a)).	,
14) ☐ Acknowledgment is made of a claim for dom	nestic priority under 35 U.S.	C. § 119(e) (to a provisional appli-	cation).
 a) The translation of the foreign language 15) Acknowledgment is made of a claim for don 			

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

Attachment(s)

6) Other:

4) Interview Summary (PTO-413) Paper No(s).

5) Notice of Informal Patent Application (PTO-152)

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1 and 2 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,557,154 to Erhart in view of U.S. Patent No. 5,731,702 to Schroeder et al.

Erhart disclose the construction of a linear actuator having:

a motor (Figure 1),

an output shaft (25), and

a conversion means (70) for converting output rotation of the motor to linear motion of the output shaft comprising:

a linear absolute sensor (510) that detects an absolute linear position within a set range of movement of the output shaft; and

calculation (506) means for calculating an absolute linear position of the output shaft;

wherein the range of movement of the output shaft over which the absolute linear position can be detected by the linear absolute sensor is different

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from a distance by which the output shaft is moved per rotation of the motor as converted by the conversion means.

However, it fails to disclose a rotary absolute sensor that detects an absolute rotary position per rotation of the motor.

Schroeder et al. teaches the construction of a high accuracy angle based rotation sensor with time based back up having a rotary absolute sensor (20, 30) that detects an absolute rotary position per rotation of the motor for the purpose of generating an electric signal representative of the rotation position of the rotor.

It would have been obvious to one skilled in the art at the time the invention was made to use the high accuracy angle based rotation sensor disclosed by Schroeder et al. on the linear actuator disclosed by Erhart for the purpose of generating an electric signal representative of the rotation position of the rotor.

4. With regards to claim 2, Schroeder et al. discloses a motor control encoder affixed to a target.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The examiner can normally be reached on M-F from 8:30 - 6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas January 27, 2003

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